## **CLAIMS**

## What is claimed is:

1	1. A method of facilitating transmission of a message from a sender to a receiver,	
2	comprising:	
3	storing sender identification information in association with a penalty that a sender i	is
4	willing to incur for a first message that is unwanted by the receiver;	
5	receiving a query about whether a sender of a first message satisfies specified sendir	ng
6	criteria;	
7	determining whether the sender satisfies the specified sending criteria; and	
8	sending a second message specifying whether the sender of the first message satisfie	es
9	the specified sending criteria, for use by the receiver in determining whether	r
10	to accept the first message.	

- A method as recited in Claim 1, wherein the determining step comprises determining whether the penalty is greater than a base penalty amount multiplied by the sum of (a) a number of complaints about unsolicited messages that are actually received from the sender and (b) an estimate of a number of complaints that are not yet made or never made by the receiver and any other receiver.
- 1 3. A method as recited in Claim 2, further comprising refusing to accept the first
  2 message when the penalty is not greater than the base penalty amount multiplied by the sum
  3 of (a) and (b).
- 4. A method as recited in Claim 1, wherein the determining step comprises determining a sender experience value for the sender of the first message, wherein the sender experience value is computed as the penalty divided by a sum of a number of complaints about unwanted messages that are actually received from the sender and an estimate of a number of complaints that are not yet filed or never filed by the receiver and any other receivers.

- 1 5. A method as recited in Claim 4, further comprising refusing to accept the first
- 2 message when the sender experience value for the sender of the first message is less than a
- 3 specified minimum sender experience value.
- 1 6. A method of authorizing transmission of a first message from a sender to a receiver,
- 2 comprising:
- 3 storing sender identification information in association with a penalty value
- 4 identifying an amount of monetary value that a sender is willing to pay for a
- 5 specified message that is sent by the sender to the receiver and that is
- 6 unwanted by the receiver;
- 7 receiving a query about whether a first message from the sender is subject to a
- 8 penalty offered by the sender;
- 9 determining whether the first message is subject to a penalty offered by the sender;
- 10 and
- sending a second message specifying whether the first message is subject to a penalty
- offered by the sender.
- 1 7. A method as recited in Claim 6, further comprising the step of receiving a third
- 2 message indicating that the first message is unwanted.
- 1 8. A message as recited in Claim 7, further comprising verifying that the third message
- 2 is legitimate based on comparing a source network address of the third message to a recipient
- 3 address in the first message.
- 1 9. A method as recited in Claim 6, further comprising the steps of:
- 2 receiving a third message, from the receiver, indicating that the first message is
- 3 unwanted;
- 4 in response to receiving the third message, transferring money from the sender's
- 5 account.

1	10.	A method as recited in Claim 6, further comprising the steps of receiving a third
2	messa	ge, from the receiver, indicating that the first message is unwanted; and in response to
3	receivi	ng the third message, determining a sender experience value for the sender of the first
4	messag	ge, wherein the sender experience value is computed as the amount of monetary value
5	divide	d by a sum of a number of complaints about unwanted messages that are actually
6	receive	ed from the sender and an estimate of a number of complaints that are not yet filed or
7	never	filed by the receiver and any other receivers.
1	11.	A method as recited in Claim 6, further comprising the steps of:
2		receiving a third message, from the receiver, indicating that the first message is
3		unwanted;
4		in response to receiving the third message, transferring value from the sender,
5		wherein the value transferred from the sender is equal to the penalty value.
1	12.	A method as recited in Claim 6, further comprising the steps of:
2		after sending the second message, receiving a request to reserve an amount of
3		monetary value equal to the penalty value;
4		in response to receiving the reservation request, storing a reserved penalty value in
5		association with the sender identification data;
6		receiving a third message, from the receiver, indicating that the first message is
7		unwanted;
8		in response to receiving the third message, transferring value from the sender .
1	13.	A method as recited in Claim 6, further comprising the steps of:
2		sending the penalty value as part of the second message;
3		receiving a third message, from the receiver, indicating that the first message is
4		unwanted;
5	_	in response to receiving the third message, transferring value from the sender

- 1 14. A method as recited in Claim 6, wherein the first message is an electronic mail
- 2 message.
- 1 15. A method as recited in Claim 6, wherein the first message is a telephone message.
- 1 16. A method as recited in Claim 6, wherein the first message is an electronic mail
- 2 message, and wherein the query is received from an electronic mail service provider.
- 1 17. A method as recited in Claim 6, wherein the first message is a telephone message,
- 2 and wherein the query is received from a telephone network service provider.
- 1 18. A method as recited in Claim 6, wherein the storing step comprises the step of storing
- 2 sender identification information with multiple penalty values identifying a plurality of
- different amounts of monetary value that a sender is willing to pay for a message that is sent
- 4 by the sender to receivers and that is unwanted by the receivers, wherein each of the plurality
- 5 of penalty values is associated with one of a plurality of receivers.
- 1 19. A method as recited in Claim 6, wherein the storing step comprises the step of storing
- 2 sender identification information in association with a plurality of penalty values identifying
- a plurality of different amounts of monetary value that a sender is willing to pay for a
- 4 message that is sent by the sender to receivers and that is unwanted by the receivers, wherein
- 5 each of the plurality of penalty values is associated with one of a plurality of categories of
- 6 receivers.

1	20.	A method as recited in Claim 6, wherein the storing step comprises the step of storing		
2	sende	er identification information in association with a plurality of penalty values identifying		
3	a plui	a plurality of different amounts of monetary value that a sender is willing to pay for a		
4	mess	message that is sent by the sender to a receiver and that is unwanted by the receiver, wherein		
5	each	of the plurality of penalty values is associated with one of a plurality of categories of		
6	messa	ages.		
1	21.	A method as recited in Claim 6, wherein the storing step comprises the step of storing		
2	sende	er identification information in association with a penalty value identifying a maximum		
3	amou	int of monetary value that a sender is willing to pay for a message that is sent by the		
4	sende	er to a receiver and that is unwanted by the receiver, and further comprising the steps of:		
5		receiving a third message, from the receiver, indicating that the first message is		
6		unwanted;		
7		in response to receiving the third message, selecting a value amount that is less than		
8		or equal to the penalty value, and transferring the selected value amount from		
9		the sender.		
1	22.	A method as recited in Claim 6, further comprising the steps of:		
2		receiving a third message, from the receiver, indicating that the first message is		
3		unwanted;		
4		in response to receiving the third message, transferring value from the sender,		
5		including transferring a portion of the value to the recipient.		
1	23.	A method for sending a bonded message to a recipient, comprising:		
2		agreeing, with a service operator, to pay a penalty if a recipient receives an unwanted		
3		bonded message;		
4		sending a bonded message to the recipient; and		
5		paying a penalty if the recipient in response to the recipient indicating that the bonded		

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message is unwanted.

1	24.	A method for processing an electronic message, comprising:
2		receiving a first message from a sender that is sent to an intended recipient;
3		requesting a service operator to determine whether the first message is bonded;
4		receiving a second message from the service operator indicating whether the first
5		message is bonded; and
6		forwarding the first message to the intended recipient only when the second message
7		indicates that the first message is bonded.
1	25.	A method for processing an electronic message, comprising:
2		receiving a first message from a sender that is sent to an intended recipient;
3		requesting a service operator to determine whether the sender of the first message
4		satisfies specified sending criteria;
5		receiving a second message from the service operator indicating whether the sender
6		satisfies the specified sending criteria;
7		forwarding the first message to the intended recipient only when the second message
8		indicates that the sender of the first message satisfies the specified sending
9		criteria.
1	26.	A method as recited in Claim 25, wherein the second message indicates whether, for

- A method as recited in Claim 25, wherein the second message indicates whether, for the sender, an amount of monetary value that the sender has agreed to forfeit is greater than a penalty that is computed as a base penalty amount multiplied by the sum of (a) a number of complaints about unwanted messages that are actually received from the sender and (b) an estimate of a number of complaints that are not yet made or never made by the receiver and any other receiver.
- 1 27. A method as recited in Claim 26, further comprising forwarding the first message 2 only when the amount of monetary value is greater than the penalty.

- 1 28. A method as recited in Claim 25, wherein the second message includes a sender
- 2 experience value for the sender of the first message, wherein the sender experience value is
- 3 computed as the amount of monetary value divided by a sum of a number of complaints
- 4 about unwanted messages that are actually received from the sender and an estimate of a
- 5 number of complaints that are not yet filed or never filed by the receiver and any other
- 6 receivers.
- 1 29. A method as recited in Claim 28, further comprising forwarding the first message
- 2 only when the sender experience value for the sender of the first message is greater than or
- 3 equal to a specified minimum sender experience value.
- 1 30. A method as recited in Claim 25, wherein the second message includes a penalty
- 2 value identifying a monetary penalty that the sender is willing to pay if the recipient indicates
- 3 that the first message is unwanted.
- 1 31. A method as recited in Claim 25, wherein the second message includes a penalty
- 2 value identifying a monetary penalty that the sender is willing to pay if the recipient indicates
- 3 that the first message is unwanted, and wherein the requesting step includes requesting the
- 4 service operator to determine whether the first message is bonded by comparing the penalty
- 5 value to a specified threshold.
- 1 32. A method as recited in Claim 25, wherein the second message includes a penalty
- 2 value identifying a monetary penalty that the sender is willing to pay if the recipient indicates
- 3 that the first message is unwanted, and wherein the requesting step includes requesting the
- 4 service operator to determine whether the first message is bonded by comparing the penalty
- 5 value to a specified threshold, and wherein the specified threshold is selected based on an
- 6 identity of the intended recipient.

- 1 33. A method managing electronic messages sent from a sender to a recipient,
- 2 comprising:
- receiving agreement from a message sender to pay a penalty, wherein the penalty is
- 4 based upon a determination that one or more electronic messages sent by the
- 5 message sender to message recipients are unwanted by the message recipients;
- 6 receiving one or more indications that a message sent by the message sender is
- 7 unwanted by one or more of the message recipients;
- 8 creating and storing one or more records of the indications; and
- 9 charging the message sender a penalty based upon the number of indications that are
- 10 received.
- 1 34. A method as recited in Claim 33, further comprising the steps of informing the
- 2 recipient whether, for the sender, an amount of monetary value that the sender has agreed to
- 3 forfeit is greater than a base penalty amount multiplied by the sum of (a) a number of
- 4 complaints about unwanted messages that are actually received from the sender and (b) an
- 5 estimate of a number of complaints that are not yet made or never made by the receiver and
- 6 any other receiver.
- 1 35. A method as recited in Claim 33, further comprising informing the recipient of a a
- 2 sender experience value for the sender of the first message, wherein the sender experience
- 3 value is computed as the amount of monetary value divided by a sum of a number of
- 4 complaints about unwanted messages that are actually received from the sender and an
- 5 estimate of a number of complaints that are not yet filed or never filed by the receiver and
- 6 any other receivers.
- 1 36. A method as recited in Claim 33, wherein the electronic messages are e-mail
- 2 messages.

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37. A method as recited in Claim 33, wherein the electronic messages are telephone calls.

- 1 38. A method as recited in Claim 33, wherein the electronic messages are pager 2 messages. 1 39. A method as recited in Claim 33, wherein the penalty is determined by multiplying 2 the number of indications by a specified fine amount. 1 40. A method as recited in Claim 33, wherein the penalty is limited to a specified 2 maximum penalty amount for all indications that are received in a specified period. 1 41. A method as recited in Claim 33, wherein the penalty is determined by multiplying 2 the number of indications received by a penalty value that is selected from among one of a 3 plurality of penalty values based on the number of indications that are received. 1 42. A method as recited in Claim 33, wherein the penalty is a fixed amount per indication 2 that exceeds an allowed complaint rate. 1 43. A method of penalizing a sender of unsolicited messages directed to a recipient, 2 comprising the steps of: 3 receiving information specifying that the sender has deposited monetary value in an 4 account associated with information identifying the sender; 5 receiving, from the recipient, information identifying an allegedly wanted message 6 dispatched from the sender to the recipient; 7 determining that the allegedly unsolicited electronic message was unwanted; and 8 penalizing the sender by conveying some or all of the monetary value from the 9 account to a service operator, a receiver, or the recipient in response to
- 1 44. A method of operating an electronic message gateway, comprising the steps of: 2 receiving an electronic message from a sender;

determining that the allegedly unsolicited electronic message was unsolicited.

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3		determining whether the sender is identified in a list of known senders;
4		determining whether the message is a mass unsolicited electronic message; and
5		issuing one or more instructions to convey some or all of monetary value, held in an
6		account associated with the sender, from an account associated with the
7		sender to a service operator, a receiver, or the recipient of the electronic
8		message, in response to determining that the electronic message is a mass
9		unsolicited electronic message.
1	45.	A method of operating an electronic messaging system, comprising the steps of:
2		receiving information specifying that the sender has deposited monetary value in an
3		account associated with information identifying the sender;
4		receiving an electronic message from a sender;
5		determining whether the sender is identified in a list of known senders;
6		determining whether the message is an unwanted message; and
7		conveying some or all of the monetary value, from the account associated with the
8		sender, to service operator, a receiver, or the recipient of the electronic in
9		response to determining that the electronic message is an unwanted electronic
10		message.
1	46.	A method as recited in Claim 45, further comprising the steps of:
2		receiving, from the recipient, directly or indirectly, information identifying an
3		allegedly unsolicited message dispatched from the sender to the recipient; and
4		conveying some or all of the monetary value from the account to service operator, a
5		receiver, or the recipient in response to determining that the allegedly
6		unsolicited electronic message was unwanted, based on the information
7		received from the recipient.
1	47.	A method of penalizing a sender of unsolicited messages directed through a receiver
2	to a r	ecipient, comprising the steps of:
3		receiving an encrypted token that the sender provided in the message;

4	determining, based on values in the encrypted token, whether the sender actually
5	created the token;
6	determining whether the sender has sufficient credit to suffer a penalty if the message
7	is unwanted by the recipient;
8	sending a response message identifying whether the sender actually created the token
9	and whether the sender has sufficient credit;
0	receiving information specifying that the message is unwanted; and

- receiving information specifying that the message is unwanted; and penalizing the sender.
- 1 48. A method as recited in Claim 47, further comprising determining whether a recipient 2 address value in the encrypted token matches a known network address of the recipient.
- 1 49. A method as recited in Claim 47, wherein the encrypted token includes a sender
- 2 identifier, token identifier, and penalty amount offered by the sender.
- 1 50. A method as recited in Claim 47, wherein the encrypted token includes a sender
- 2 identifier, token identifier, penalty amount offered by the sender, and expiration time value.
- 1 51. A method as recited in Claim 47, wherein values in the encrypted token comprise a
- 2 sender identifier, penalty amount offered by the sender, and recipient address.
- 1 52. A method as recited in Claim 47, further comprising the steps of determining whether
- 2 the encrypted token has been processed before, and generating a value in the response
- 3 message that indicates whether the encrypted token has been processed before.
- 1 53. A method as recited in Claim 47, wherein values in the encrypted token comprise an
- 2 expiration time value, and further comprising the steps of:
- determining whether the expiration time value has passed;
- 4 accepting the message only when the expiration time value has not passed.

1	54.	A method as recited in Claim 47, wherein values in the encrypted token comprise an
2	penalt	y amount offered by the sender, and further comprising the steps of:
3		determining whether the penalty amount offered by the sender is greater than a
4		specified minimum penalty value;
5		accepting the message only when the penalty amount offered by the sender is greater
6		than a specified minimum penalty value.
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1	55.	A method as recited in Claim 47, wherein values in the encrypted token comprise a
2	recipi	ent address value, and further comprising the steps of:
3		determining whether the recipient address value matches a destination address value
4		in a header of the message;
5		accepting the message only when the recipient address value matches a destination
6		address value in a header of the message.
1	56.	A method as recited in Claim 47, further comprising the steps of accepting the
2	messa	ge only when the sender actually created the token.
1	57.	A method as recited in Claim 47, further comprising the steps of penalizing the
2	sende	only when a complaint message containing the token is determined to have actually
3		ated from a recipient of the first message.
1	58.	A method as recited in Claim 47, further comprising the steps of accepting the
2	messa	ge only when the sender has sufficient credit to suffer a penalty if the message is
3		ated by the recipient.
1	59.	A method as recited in Claim 47, further comprising the steps of:
2		receiving the encrypted token with the information specifying that the message is
3		unwanted; and

4		penalizing the sender only upon determining, based on a sender identifier in the	
5		token, that the sender actually created the token.	
1	60.	A method as recited in Claim 47, further comprising the steps of:	
2		receiving the encrypted token with the information specifying that the message is	
3		unwanted; and	
4		penalizing the sender only upon determining, based on an expiration time value in the	
5		token, that the token is unexpired.	
1	61.	A method as recited in Claim 47, further comprising the steps of:	
2		receiving the encrypted token with the information specifying that the message is	
3		unwanted; and	
4		penalizing the sender only upon determining, based on the token, that the sender has	
5		not previously paid a penalty for other messages associated with the same	
6		token.	
1	62.	A method as recited in Claim 47, further comprising the steps of penalizing the	
2	sende	r only upon determining, based on a recipient address in the token, that the submitter of	
3	the information specifying that the message is unwanted actually owns or is associated with		
4	the re	cipient address.	
1	63.	A method as recited in Claim 47, wherein penalizing the sender comprises a service	
2	opera	tor issuing an invoice to the sender for payment of a fine.	
1	64.	A method as recited in Claim 47, wherein penalizing the sender comprises a service	
2	opera	tor transferring funds previously provided by the sender from a first account associated	
3	with t	he service operator to a second account associated with the receiver, the recipient, or a	

beneficiary.

- 1 65. A computer-readable medium carrying one or more sequences of instructions for
- 2 delivering electronic messages, which instructions, when executed by one or more
- processors, cause the one or more processors to carry out the steps of any of Claims 1, 6, 24,
- 4 25, 33, 42, 43, 44, 45, or 47.
- 1 66. An apparatus for creating and storing troubleshooting information for delivering
- 2 electronic messages, comprising means for performing any of the functions recited in Claims
- 3 1, 6, 24, 25, 33, 42, 43, 44, 45, or 47.
- 1 67. An apparatus for delivering electronic messages, comprising:
- 2 a network interface that is coupled to the data network for receiving one or more packet
- 3 flows therefrom;
- 4 a processor;

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- 5 one or more stored sequences of instructions which, when executed by the processor, cause
- the processor to carry out the steps of any of Claims 1, 6, 24, 25, 33, 42, 43, 44, 45 or
- 7 47.
- 1 68. A method as recited in Claim 1, wherein the penalty comprises money, resources,
- 2 goods, services, or promises.
- 1 69. A method as recited in Claim 6, further comprising the steps of:
- 2 receiving a third message, from the receiver, indicating that the first message is
- 3 unwanted;
- 4 determining whether the third message exceeds an allowed complaint rate associated
- 5 with the sender; and
- debiting value from the sender when the complaint rate is exceeded.